

IN THE CLAIMS

Please amend the claims as follows:

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1-9. (Cancelled).

10. (New) A digital transmission method for error-correcting coding, comprising:
coding, including applying a given coding scheme to generate a coded information item having a certain redundancy from a selected information item;
transmitting the coded information item on a channel;
obtaining at least one parameter used in the transmitting;
puncturing the coded information based on the at least one parameter;
decoding the coded information after the transmitting to obtain an estimate of the selected information item;
correcting at least one transmission error based on the certain redundancy; and
depuncturing the coded information.

11. (New) the digital transmission method according to Claim 10, wherein the at least one parameter includes at least one of a bit error rate, a packet error rate, a signal to noise ratio, a signal to interference plus noise ratio, a number of users of a telecommunication system, a quality of service required by the transmission system, or a speed of movement of a user of the transmission system.

12. (New) The digital transmission method according to Claim 10, wherein the coding comprises:

a plurality of elementary coding steps associated in parallel, each of the elementary coding steps generating an elementary coded information item; and

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an adapting step for checking if the puncturing obtains a full puncturing of the elementary coded information and for modifying the coding based on the checking.

13. (New) The digital transmission method according to Claim 11, wherein the coding comprises:

a plurality of elementary coding steps associated in parallel, each of the elementary coding steps generating an elementary coded information item; and

an adapting step for checking if the puncturing obtains a full puncturing of the elementary coded information item and for modifying the coding based on the checking.

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14. (New) The digital transmission method according to Claim 12, wherein the elementary coding includes convolutional coding applied to the selected information item, thereby generating each elementary coded information item.

15. (New) The digital transmission method according to Claim 14, wherein the convolutional coding is applied to the selected information item and at least one auxiliary information item, thereby generating a generator polynomial.

16. (New) The digital transmission method according to Claim 15, wherein the at least one auxiliary information item includes at least one of a bit error rate, a packet error rate, a signal to noise ratio, a signal to interference plus noise ratio, a number of users of a telecommunication system, a quality of service required by the transmission system, or a speed of movement of a user of the transmission system.

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17. (New) The digital transmission method according to Claim 13, wherein the elementary coding includes convolutional coding applied to the selected information item, thereby generating each elementary coded information item.

18. (New) The digital transmission method according to Claim 17, wherein the convolutional coding is applied to the selected information item and at least one auxiliary information item, thereby generating a generator polynomial.

19. (New) The digital transmission method according to Claim 18, wherein the at least one auxiliary information item includes at least one of a bit error rate, a packet error rate, a signal to noise ratio, a signal to interference plus noise ratio, a number of users of a telecommunication system, a quality of service required by the transmission system, or a speed of movement of a user of the transmission system.

20. (New) The digital transmission method according to Claim 12, wherein the coding includes turbo-coding,

the plurality of elementary coding steps are concatenated in parallel and have interleaving adapting steps, and

the puncturing occurs after a multiplexing step commingling a plurality of elementary coded information items generated by the plurality of elementary coding steps.

21. (New) The digital transmission method according to Claim 13, wherein the coding includes turbo-coding,

the plurality of elementary coding steps are concatenated in parallel and have interleaving adapting steps, and

the puncturing occurs after a multiplexing step commingling a plurality of elementary coded information items generated by the plurality of elementary coding steps.

22. (New) The digital transmission method according to Claim 20, wherein the coding includes parallel concatenation turbo-coding.

23. (New) The digital transmission method according to Claim 21, wherein the coding includes parallel concatenation turbo-coding.

24. (New) The digital transmission method according to Claim 20, wherein the coding includes parallel concatenation block turbo-coding.

25. (New) The digital transmission method according to Claim 21, wherein the coding includes parallel concatenation block turbo-coding.

26. (New) The digital transmission method according to Claim 12, wherein the decoding includes:

a plurality of elementary decoding steps, respectively corresponding to said plurality of elementary coding steps, and processing each elementary coded information item; and

decoding adapting to remove any of the plurality of elementary decoding steps having a fully punctured elementary coded information item.

27. (New) The digital transmission method according to Claim 13, wherein the decoding includes:

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a plurality of elementary decoding steps, respectively corresponding to said plurality of elementary coding steps, and processing each elementary coded information item; and decoding adapting to remove any of the plurality of elementary decoding steps having a fully punctured elementary coded information item.

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28. (New) The digital transmission method according to Claim 12, wherein the decoding includes adapting to remove any fully punctured coded information.

29. (New) The digital transmission method according to Claim 13, wherein the decoding includes adapting to remove any fully punctured coded information.

AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include changes to Figures 1-7. These sheets replace the original sheets including Figures 1-7. In Figures 1-7, the elements have been labeled.

Attachment: Replacement Sheets